



SWDGET®
POWER TO LIVE SMART

Wiring Device Manual

A comprehensive guide to quick and simple installation.

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Product Overview

Are you ready to **transform your house into a smart home** that understands and adapts to your unique needs and lifestyle?

Swidget wiring devices, including outlets, dimmers, and switches, are designed to be the foundation of a modular smart home system aimed at providing versatile and future-proof solutions for home automation.

These devices are unique in their ability to accommodate interchangeable Inserts, allowing for easy customization and adaptation to meet various smart home needs.

This system not only ensures that the devices can evolve with advancing technology, but also allows homeowners to modify and upgrade their smart solutions without the need for replacement of an entire switch or outlet, making Swidget's products a sustainable choice for modern smart homes.





CAUTION. SAFETY AND REGULATORY INFORMATION

Installations involving electrical wiring must be carried out by licensed personnel in accordance with all applicable local and National Electrical Codes (NEC)/mechanical codes, including fire-rated construction.

Use these products only in the manner intended by the manufacturer. If you have any questions, contact Swidget for more information.

Refer to the full installation instructions provided with the products or found here before proceeding with the installation to review all applicable cautionary and warning statements for this product.

Tools Needed for Installation



VOLTAGE TESTER



SCREWDRIVER



ELECTRICAL TAPE



WIRE STRIPPER



PLIERS

Recommended Installation Locations

GENERAL RECOMMENDATIONS

Direct Sunlight, Heaters, and Vents: Placing wiring devices with sensors in direct sunlight, or near vents, heaters, and/or air conditioning units can impact temperature and motion sensor readings, as the intense heat, cool drafts, or direct light can cause the sensors to register erroneous ambient conditions or detect false movements.

Exterior Walls: Installing wiring devices with temperature sensors on exterior walls may lead to inaccurate readings due to the thermal mass of the wall absorbing heat or cold from outside, as well as potential drafts, affecting the sensor's ability to accurately measure the room's ambient temperature.

DEVICE-SPECIFIC RECOMMENDATIONS

15A Outlet (R1015SWA) - Locations where you want to control appliances, monitor energy use, or use a sensor or convenience Insert.

20A Outlet (R1020SWA) - Locations where higher amperage is needed or required by code, like kitchens, garages, workshops, and utility rooms.

1P/3Way Switch (S16001WA) - Works in single pole installations or replace one or more traditional switches in a 3-Way or 4-Way setup.

Dimmer (SD3001WA) - Single pole locations where light dimming is desired.

20/40/60 Control Switch (S16008WA) - Control for ERVs and bathroom ventilation fans.

Auxiliary Control Switch (S16009WA) - Control dry contact devices.

Tips and Tricks

IDENTIFYING WIRES

Switch the power off at the circuit breaker, disconnect the line, neutral, and ground wires from the old wiring device (if applicable), and cap each wire. To identify the line wire (the wire that is energized), turn the power back on, and use a voltage detector. Remember to switch the power off again at the circuit breaker before proceeding.

ELECTRICAL BOX SIZE AND BOX FILL REQUIREMENTS

- **Minimum Box Depth:** Swidget smart home wiring devices, comparable in depth to GFCI outlets, necessitate a minimum electrical box depth of 2.5 inches. This requirement ensures that the device can be accommodated without straining or overcrowding the box.
- **Recommended Box Depth:** For optimal installation and functionality, a 3-inch deep electrical box is recommended. The additional depth provides extra space for easier wire management, improved air circulation around the device, and accommodates the modular nature of Swidget devices, which may include adding smart Inserts. This recommendation is particularly important for ensuring the system's versatility and future-proofing the installation for subsequent upgrades or modifications.
- **Box Fill Considerations:** Adhering to box fill requirements is crucial to prevent overheating and ensure compliance with electrical codes. These requirements dictate the maximum number of wires, connectors, and devices allowed within a given electrical box size, taking into account the space occupied by the Swidget device and any additional wires or modules introduced during installation. Proper calculation of box fill ensures safety, functionality, and ease of future maintenance or upgrades, making it an essential consideration for both initial installation and long-term use of Swidget smart home wiring devices.

Tips and Tricks

IDENTIFYING SINGLE POLE, 3-WAY, AND 4-WAY

- **Single Pole:** This setup involves one switch controlling a light or set of lights. The switch will have two screw terminals: one for the live (hot) wire that brings power to the switch and another for the wire that carries power to the light(s). There's usually also a ground screw.
- **3-Way:** A 3-Way setup has two switches controlling one light. Each switch has three terminals: one common (usually a different color) and two traveler terminals that are connected via traveler wires. This allows the light to be turned on or off from either switch.
- **4-Way:** For a 4-Way setup, there are three or more switches controlling one light. The 4-Way switch itself has four terminals (in addition to the ground): two for the incoming traveler wires from one 3-Way switch and two sending traveler wires to the other 3-Way switch.

IDENTIFYING 3-WAY SWITCH TYPE

- **Power to Switch First:** Here, the power comes into the first switch box, then runs to the light fixture, and finally to the second switch. This is typical when the power source is closer to the location of one of the switches.
- **Power to Light Fixture First:** In this arrangement, the power source comes into the light fixture box first and then runs to the switches. This is a common setup when the power source is located near the light fixture in the ceiling.
- **Light Fixture at the End:** In this configuration, the power source runs from switch to switch before going to the light. This is often found in setups where the light fixture is not between the switches but rather at the end of the circuit.

Basic Electrical Wiring Device Removal and Installation

INSTRUCTIONS

- 1 Switch off the circuit breaker in the electrical panel to cut power to the wiring device.
- 2 Remove cover plate and test for live wires using the voltage tester. If live wires are present, stop and verify that the circuit breaker supplying the circuit has been switched off. If you are unable to access the mains wires, carefully remove the wiring device and test for live wires as soon as you are able to.
- 3 Carefully disconnect wires from the old wiring device, paying attention to their original configuration. It is recommended that you take a picture at this stage for future reference.
- 4 Connect wires to the new wiring device following the wiring directions in the product instruction manual and secure them using wire connectors.
- 5 Mount the new wiring device, replace the cover, and turn the circuit breaker back on to restore power.

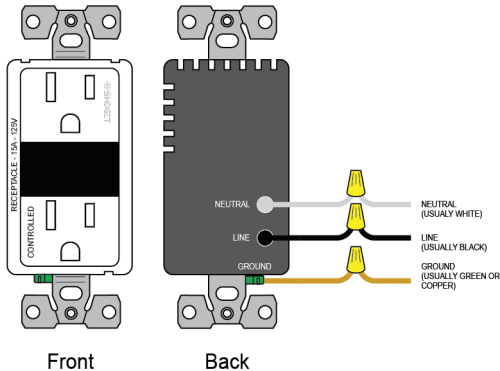
QR Codes can be found on the device specific wiring pages of this document.

Outlet Wiring Instructions

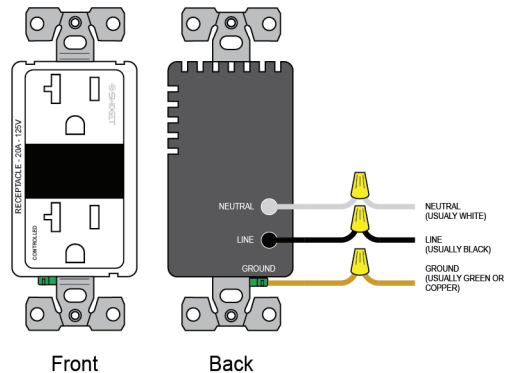
MUST BE INSTALLED AND USED IN ACCORDANCE WITH ELECTRICAL CODES.

Please use the QR codes below to access up-to-date instructions for your wiring device.

15A Outlet (R1015SWA)



20A Outlet (R1020SWA)

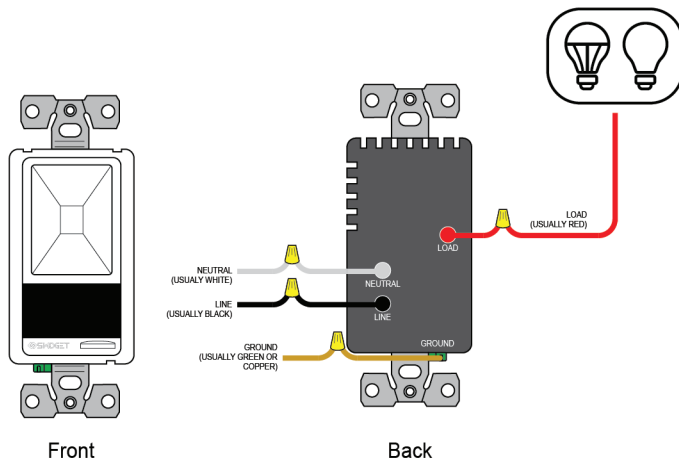


Dimmer Wiring Instructions

MUST BE INSTALLED AND USED IN ACCORDANCE WITH ELECTRICAL CODES.

Please use the QR code below to access up-to-date instructions for your wiring device.

Dimmer (SD3001WA)

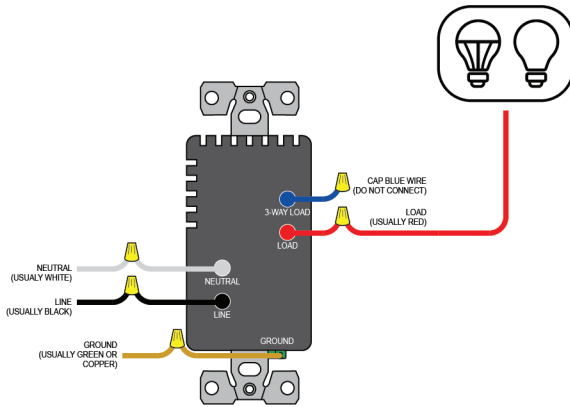


Switch Wiring Instructions

MUST BE INSTALLED AND USED IN ACCORDANCE WITH ELECTRICAL CODES.

Please use the QR code below to access up-to-date instructions for your wiring device.

1P/3-Way Switch (S16001WA)

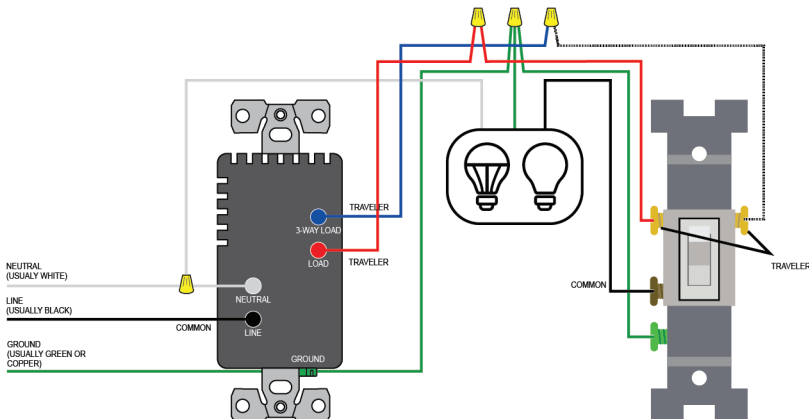


Back

3-Way Switch Identification and Wiring

POWER TO SWITCH FIRST

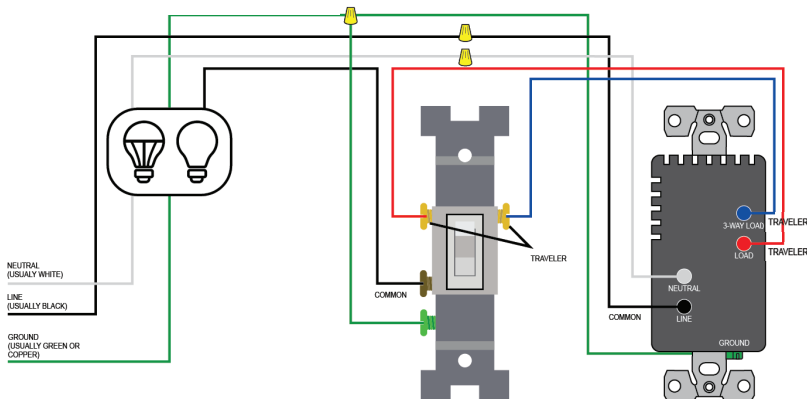
- **Hot Wire Connection:** The hot wire from the power source connects to the common terminal of the first 3-way switch.
- **Traveler Wires:** Two traveler wires (usually red and black) run from the first 3-way switch to the second 3-way switch. These are connected to the traveler terminals on both switches.
- **Common Terminal at Second Switch:** The common terminal of the second 3-way switch then has a wire that runs to the light fixture, supplying power when either switch is in the "on" position.
- **Neutral Wire:** The neutral wire (white) from the power source is required at all Swidget Switch locations, as well as at the light fixture.
- **Ground Wire:** The ground wire (usually green or copper) should be connected to the ground screw on both switches and also to the light fixture.



3-Way Switch Identification and Wiring

POWER TO LIGHT FIXTURE FIRST

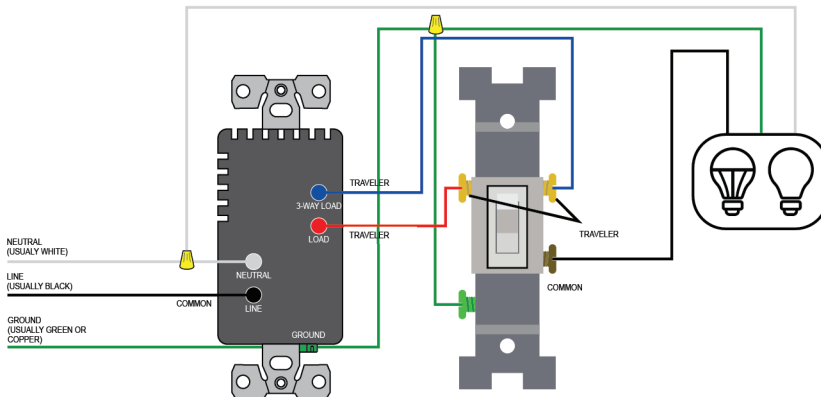
- **Hot Wire Connection:** The hot wire from the power source goes to the fixture but doesn't directly power the light. Instead, it routes power to the switches, enabling them to control the light.
- **Travelers to First Switch:** Two traveler wires extend from the light fixture to the traveler terminals of the first 3-way switch.
- **Neutral Wire:** The neutral wire (white) from the power source connects directly to the light fixture. It is also required at each Swidget Switch location.
- **Grounding:** The ground wire connects to the light fixture and both switches.
- **Travelers to Second Switch:** From the first 3-way switch, the traveler wires continue to the corresponding traveler terminals of the second switch.
- **Common Terminal:** The common terminal of the second 3-way switch is connected back to the light fixture with a wire which carries the load to the light.
- **Switch Operation:** Either switch can now control the light.



3-Way Switch Identification and Wiring

LIGHT FIXTURE AT THE END

- **Hot Wire Connection:** The power source hot wire connects to the common terminal of the first 3-way switch.
- **Travelers Between Switches:** Two traveler wires run between the traveler terminals of the first and second 3-way switches.
- **Neutral Wire:** The neutral wire (white) from the power source is connected to the neutral wire on the Swidget Switch and the light fixture.
- **Grounding:** The ground wire connects to both switches and the light fixture.
- **Common from Second Switch to Light:** The common terminal of the second 3-way switch is connected to the light fixture's hot wire.
- **Switch Operation:** The switches control the power flow to the light fixture, allowing it to be turned on or off from two locations.

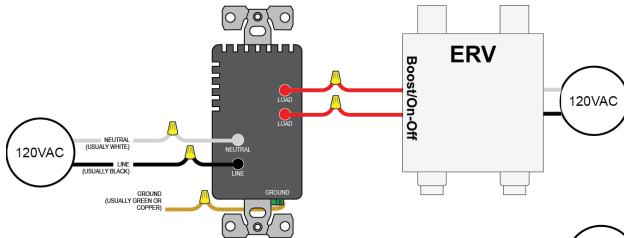


Dry Contact Switch Wiring Instructions

MUST BE INSTALLED AND USED IN ACCORDANCE WITH ELECTRICAL CODES.

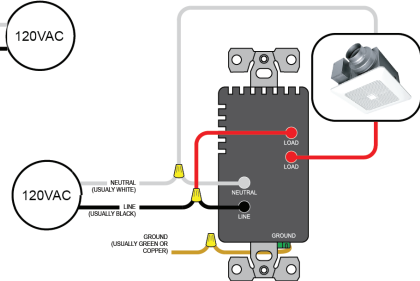
Please use the QR codes below to access up-to-date instructions for your wiring device.

20/40/60 Control Switch (S16008WA)



*Dry contact switch wiring for control only circuits
(red wires not energized)*

Auxiliary Control Switch (S16009WA)



*Dry contact switch wiring for appliances that
require line-voltage*

Troubleshooting

FLICKERING LIGHTS

Some low voltage LEDs may dim or flicker when attached to high-power dimmer switches.

A Swidget Dimmer can be adjusted (trimmed) to meet the specifications of the lights that it is connected to. This allows the minimum and maximum brightness levels to be set and helps to eliminate flickering while maximizing the dimming range.

Set MAX and MIN brightness limits

With a light bulb connected to the Dimmer:

1. PRESS and HOLD ON for 5 seconds to set the MAXIMUM value. The light bulb will flash 3 times. Press OFF to cancel at any time.
2. Adjust with - and + buttons.
3. PRESS and HOLD ON for 5 seconds to set the MINIMUM value. The light bulb will flash 2 times.
4. Adjust with - and + buttons.
5. PRESS and HOLD ON for 5 seconds to save new MAXIMUM and MINIMUM values. The light bulb will flash once.

Warranty and Support Information

After having been installed according to your local electrical code and by a certified electrician when applicable, and having been used within normal operating conditions, Swidget Corp. will repair or replace (at Swidget's discretion) any product that fails due to manufacturing defects for a period of 5 years for Swidget Devices and for a period of 2 years for Swidget Inserts. Any repair or replacement of defective products will extend the warranty by 90 days or the time remaining on the original warranty, whichever is longer. Post-warranty repairs are not available.

Swidget shall not be held liable under this warranty for reasonable wear and tear, or damage(s) caused by the following: misuse, neglect, improper installation, abnormal operating conditions, unauthorized modifications or attempts to repair the product.

Any claims to Swidget made under this warranty shall not exceed the cost of the repairs or replacement of the product.

This warranty applies only to Swidget products purchased from an authorized distributor or retailer, and as such, Swidget reserves the right to request proof of purchase, and reject claims for purchases made through unauthorized distributors or retailers.

Please direct warranty claims to Swidget Corp. by telephone at **1-855-202-1144**, email at support@swidget.com with subject Warranty Claim, or via mail at:

Swidget Corp.
35 Terry Fox Drive, Unit 201
Kingston, ON K7M 8N4
Canada

Each warranty return must be accompanied by a completed Return Merchandise Authorization (RMA) form provided by Swidget Customer Service.



swidget.com | Support: 1-855-202-1144 | support@swidget.com

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